

In the Claims:

Please amend the claims as follows:

1. (currently amended) An apparatus mobile electronic system comprising output means (12,42) enabling a presentation of information to a user of said mobile electronic system;
- a 3D magnetometer (51) performing magnetic measurements in three dimensions and providing data indicative of the current posture of said mobile electronic system based on said measurements; and
- at least one processing component configured to process means (52,54) processing said data indicative of the current posture of said apparatus provided by said 3D magnetometer (51) for enabling a posture related presentation of information to a user via an said output componentmeans (12,42), said processing including selecting one of at least two different modes of presentation based on said data provided by said 3D magnetometer.
2. (currently amended) The apparatus mobile electronic system according to claim 1, wherein said at least one processing component is configured to means present compass information (13,14,15,43-46) via said output component means (12,42) based on said data provided by said 3D magnetometer.
3. (currently amended) The apparatus mobile electronic system according to claim 2, further comprising said output component, wherein said output component means comprise a 3D display for presenting (42) on which said compass information (43-46) is presented.
4. (currently amended) The apparatus mobile electronic system according to claim 3, wherein said at least one processing component is configured to means

present a floating compass (43-46) on said 3D display (42) based on said data provided by said 3D magnetometer.

5. (currently amended) The apparatus mobile electronic system according to claim 1, wherein said at least one processing component is configured to receive said data indicative of the current posture of said apparatus from a 3D magnetometer and further comprising additional sensor means (50) providing additional measurement data, wherein said at least one processing component means is configured to use said additional measurement data provided by at least one additional sensor in addition for enabling a posture related presentation of information (43-46) via said output component means (42).
6. (currently amended) The apparatus mobile electronic system according to claim 5, wherein said at least one processing component is configured to means use said additional measurement data provided by said at least one additional sensor means-at least for one of the following: adjusting a presentation of information via said output component means-and filtering signals provided by said 3D magnetometer.
7. (currently amended) The apparatus mobile electronic system according to claim 5, further comprising said at least one additional sensor, wherein said at least one additional sensor means-comprises a 2D or 3D linear accelerometer configured to measure measuring the acceleration of said mobile electronic system in three dimensions.
8. (currently amended) The apparatus mobile electronic system according to claim 5, further comprising said at least one additional sensor, wherein said at least one additional sensor comprises means comprise a 3D angular accelerometer configured to measure (50) measuring the angular acceleration of said mobile electronic system in three dimensions.

9. (currently amended) The apparatus mobile electronic system according to claim 8, further comprising said 3D magnetometer, wherein said 3D magnetometer is configured to provide (51) provides first data indicating a current heading of said mobile electronic system, wherein said 3D angular accelerometer is configured to provide (50) provides second data indicating a current heading of said mobile electronic system, and wherein said at least one processing component comprises means comprise a complementary filter configured to combine (52-54) combining said first and said second data indicating a current heading of said mobile electronic system.
10. (currently amended) The mobile electronic system according to claim 244, realizing an inertial navigation system.
11. (currently amended) The mobile electronic system according to claim 214, wherein at least said output component is means are comprised in a user equipment, wherein at least said 3D magnetometer is comprised in a complementary unit external to said user equipment, wherein said user equipment and said complementary unit comprise a respective connection component means rigidly and electrically connecting said complementary unit and said user equipment for providing signals which are based on magnetic measurements of said 3D magnetometer to said user equipment.
12. (original) A complementary unit for a mobile electronic system according to claim 11.
13. (original) A user equipment for a mobile electronic system according to claim 11.
14. (currently amended) A user equipment comprising a mobile electronic system according to claim 244.

15. (original) A method for use in a mobile electronic system, said method comprising:
 - performing magnetic measurements in three dimensions in said mobile electronic system;
 - determining data indicative of the current posture of said mobile electronic system based on said performed magnetic measurements; and
 - processing said data for enabling a posture related presentation of information to a user of said mobile electronic system, said processing comprising selecting one of at least two different modes of presentation based on said data indicative of the current posture of said mobile electronic system.
16. (currently amended) The method according to claim 15, comprising presenting compass information ~~(13,14,15,43-46)~~ obtained in said processing.
17. (currently amended) The method according to claim 16, comprising presenting said compass information ~~(43-46)~~ on a display ~~(42)~~.
18. (currently amended) The method according to claim 17, comprising presenting a floating compass ~~(43-46)~~ on a 3D display ~~(42)~~.
19. (original) The method according to claim 15, further comprising performing additional measurements in said mobile electronic system, wherein said processing is based in addition on measurement data resulting in said additional measurements.
20. (original) The method according to claim 19, wherein said processing comprises using said additional measurement data at least for one of the following: adjusting a presentation of information and filtering signals resulting in said performed magnetic measurements.

21. (original) The method according to claim 19, wherein performing said additional measurements comprises measuring the acceleration of said mobile electronic system in three dimensions.
22. (original) The method according to claim 19, wherein performing said additional measurements comprises measuring the angular acceleration of said mobile electronic system in three dimensions.
23. (original) The method according to claim 22, wherein said processing comprises combining first data indicating a current heading of said mobile electronic system and second data indicating a current heading of said mobile electronic system by a complementary filtering, which first data is based on said magnetic measurements and which second data is based on said angular acceleration measurement.
24. (new) A mobile electronic system comprising
 - an output component enabling a presentation of information to a user of said mobile electronic system;
 - a 3D magnetometer configured to perform magnetic measurements in three dimensions and to provide data indicative of the current posture of said mobile electronic system based on said measurements; and
 - at least one processing component configured to process said data provided by said 3D magnetometer for enabling a posture related presentation of information via said output component, said processing including selecting one of at least two different modes of presentation based on said data provided by said 3D magnetometer.
25. (new) An apparatus comprising
 - means for receiving data indicative of the current posture of said apparatus and for processing said data for enabling a posture related presentation of

information to a user, said processing including selecting one of at least two different modes of presentation based on said received data; and

- means for linking said means for receiving and processing data to means for performing magnetic measurements in three dimensions and for providing said data indicative of the current posture of said apparatus based on said measurements.